

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



555301

(43) International Publication Date  
11 November 2004 (11.11.2004)

PCT

(10) International Publication Number  
WO 2004/096332 A1

(51) International Patent Classification<sup>7</sup>: A61M 16/06

(21) International Application Number:

PCT/AU2004/000563

(22) International Filing Date: 30 April 2004 (30.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2003902098 2 May 2003 (02.05.2003) AU  
2004901648 26 March 2004 (26.03.2004) AU

(71) Applicant (for all designated States except US): RESMED LIMITED [AU/AU]; 97 Waterloo Road, North Ryde, New South Wales 2113 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): JONES, Michael, Andrew [AU/AU]; 11 Kariwara Street, Dundas, New South Wales 2117 (AU). AMARASINGHE, Amal, Shirley [AU/AU]; 29 Grace Avenue, Beecroft, New South Wales 2119 (AU). FU, Timothy, Tsun-Fai [AU/AU]; 11 Bevan Place, Carlingford, New South Wales 2118 (AU).

LITHGOW, Perry, David [AU/AU]; 9 Staff Avenue, Glenwood, New South Wales 2768 (AU). SAADA, Jim [AU/AU]; 3 Bushview Drive, Kellyville, New South Wales 2155 (AU). SWEENEY, Fiachra, Marcus [IE/AU]; Unit 6, 136 Hastings Parade, North Bondi, New South Wales 2026 (AU).

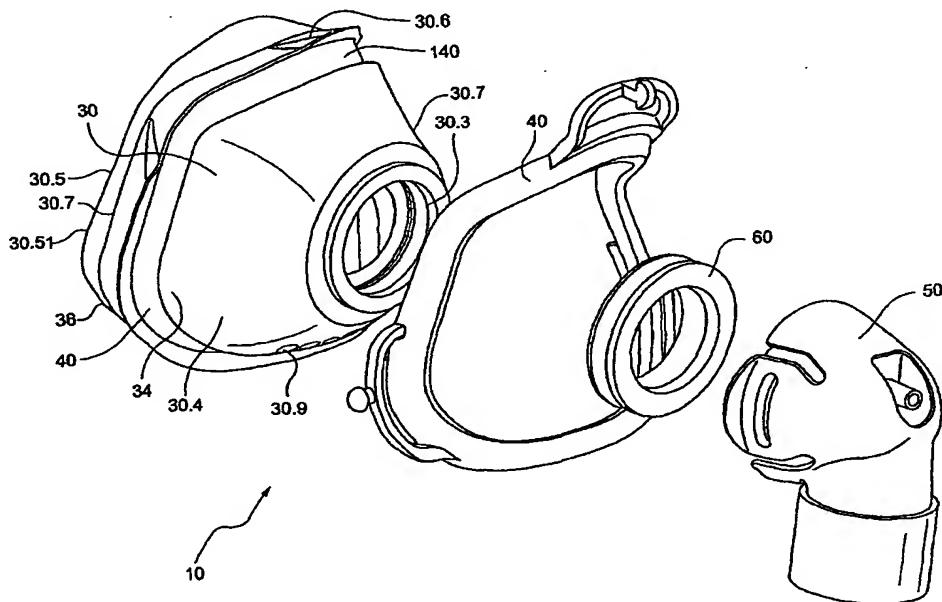
(74) Agents: BORG, Keith, Joseph et al.; Halford & Co, Level 7, 1 Market Street, Sydney, New South Wales 2000 (AU).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW).

[Continued on next page]

(54) Title: A MASK SYSTEM



WO 2004/096332 A1

(57) Abstract: The invention concerns a mask system for treating sleep disordered breathing, comprising headgear (20), a shell/cushion (30) including a channel (524) adjacent a front aperture (30.3), a frame (40), an elbow (50) including at least one undercut (50.2) on a proximal end, a retaining ring (60) including a rear flange (64) adapted to be retainably insertable in the channel (524) of the shell/cushion (30), and a front flange (66) adapted to retainably engage with the at least one undercut (50.2) of the elbow (50).



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*